



PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/722,576
		Filing Date	November 28, 2003
		First Named Inventor	Thomas HAPP
		Art Unit	2187
		Examiner Name	K. N. McLean Mayo
Total Number of Pages in This Submission	5	Attorney Docket Number	543822002600

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address. <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1. Form PTO/SB/08a/b (1 page) 2. Copies of Information Disclosure Citations (5 refs) 3. Return Receipt Postcard
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	MORRISON & FOERSTER LLP		
Signature			
Printed name	Kevin R. Spivak		
Date	October 27, 2006	Reg. No.	43,148



PTO/SB/17 (01-06)
Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL For FY 2006		Complete if Known	
		Application Number	10/722,576
		Filing Date	November 28, 2003
		First Named Inventor	Thomas Happ
		Examiner Name	K. N. McLean Mayo
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27	Art Unit	2187	
TOTAL AMOUNT OF PAYMENT	(\$) 180.00	Attorney Docket No.	543822002600

METHOD OF PAYMENT (check all that apply)	
<input type="checkbox"/> Check	<input type="checkbox"/> Credit Card
<input type="checkbox"/> Money Order	<input type="checkbox"/> None
<input type="checkbox"/> Other (please identify): _____	
<input checked="" type="checkbox"/> Deposit Account	Deposit Account Number: 03-1952 Deposit Account Name: Morrison & Foerster LLP
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)	
<input checked="" type="checkbox"/> Charge fee(s) indicated below	<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee
<input checked="" type="checkbox"/> Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17	<input checked="" type="checkbox"/> Credit any overpayments

FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

1. BASIC FILING, SEARCH, AND EXAMINATION FEES							
Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES			Small Entity	
Fee Description	Fee (\$)		Fee (\$)	
Each claim over 20 (including Reissues)	50		25	
Each independent claim over 3 (including Reissues)	200		100	
Multiple dependent claims	360		180	

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>
_____	_____	_____	_____	<u>Fee (\$)</u>
				<u>Fee Paid (\$)</u>

HP = highest number of total claims paid for, if greater than 20.				
<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	
_____	_____	_____	_____	
HP = highest number of independent claims paid for, if greater than 3.				

3. APPLICATION SIZE FEE
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____	_____	_____
- 100 = _____ /50 _____ (round up to a whole number) x _____ = _____				

4. OTHER FEE(S)	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	
Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement	180.00

SUBMITTED BY			
Signature		Registration No. (Attorney/Agent)	43,148
Name (Print/Type)	Kevin R. Spivak	Telephone	(703) 760-7762
		Date	October 27, 2006



Patent
Docket No. 543822002600

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Thomas HAPP et al.

Serial No.: 10/722,576

Filing Date: November 28, 2003

For: MEMORY SYSTEM AND PROCESS
FOR CONTROLLING A MEMORY
COMPONENT TO ACHIEVE
DIFFERENT KINDS OF MEMORY
CHARACTERISTICS ON ONE AND
THE SAME MEMORY COMPONENT

Examiner: K. N. McLean Mayo

Group Art Unit: 2187

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of the non-patent literature documents are also submitted herewith. The Examiner is requested to make these documents of record.

One of the documents listed on the attached Form PTO/SB/08a/b (Cite No. 1) was cited in the corresponding German patent application and has not been previously cited; and five of the documents listed on the attached Form PTO/SB/08a/b (Cite Nos. 2-6) were cited in the specification of this application and have not been previously cited.

va-180740

10/30/2006 SZEWDIE1 00000128 031952 10722576
01 FC:1806 100.00 DA

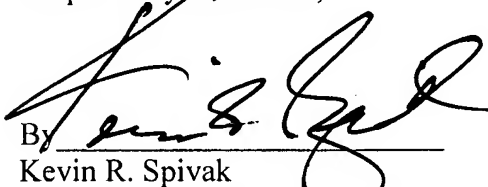
This Information Disclosure Statement is submitted after mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee. Applicants are not able to make the Certification under 37 C.F.R. § 1.97(e); however, a Fee Transmittal form (PTO/SB/17) is attached to this submission. Applicants understand that these documents might not be considered by the Patent Office at this time; however, Applicants, nonetheless, request that the documents be placed in the file.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 543822002600.

Dated: October 27, 2006

Respectfully submitted,

By 
Kevin R. Spivak

Registration No.: 45,148
MORRISON & FOERSTER LLP
1650 Tysons Blvd, Suite 300
McLean, Virginia 22102
(703) 760-7762



ALTERNATIVE TO PTO/SB/08a/b (07-05)

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket Number	543822002600
-------	---	----	---	------------------------	--------------

Complete if Known

Application Number	10/722,576
Filing Date	November 28, 2003
First Named Inventor	Thomas Happ
Art Unit	2187
Examiner Name	K. N. McLean Mayo

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1.	2003/0084233-A1	05-01-2003	WILLIAMS	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	2.	Hirose, Y. et al. (1976). "Polarity-dependent Memory Switching and Behavior of Ag Dendrite in Ag-photodoped Amorphous As ₂ S ₃ Films," <i>Journal of Applied Physics</i> 47(6):2767-2772.	
	3.	Kozicki, M. N. et al. (1999). "Application of Programmable Resistance Changes in Metal-doped Chalcogenides," <i>Electrochemical Society Proceedings</i> 99(13):298-309.	
	4.	Kozicki, M. N. et al. (2000). "Nanoscale Effects in Devices Based on Chalcogenide Solid Solutions," <i>Superlattices and Microstructures</i> 27(5/6):485-488.	
	5.	Kozicki, M. N. et al. (2002). "Can Solid State Electrochemistry Eliminate the Memory Scaling Quandry," <i>Proc. VLSI</i> 15 pages.	
	6.	Neale, R. (2002). "Micron to Look Again at Non-volatile Amorphous Memory," <i>Electronic Engineering Design</i> 6 pages.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

va- 180757